Amendments to the Claims

This listing of claims will replace all prior versions, and listing, of claims in the application:

Listing of Claims:

- (Currently Amended) A damper device for an air handling system, 1. comprising:
 - a frame defining an air flow opening:
 - at least one damper vane coupled to the frame;
 - a motor including a shaft coupled to the vane to move the damper vane between open and closed positions; and
 - a sensor positioned to sense when the damper vane reaches a home position;
 - wherein the damper vane moves from a home position in which the sensor senses the damper vane to a second position in which the damper vane is not sensed by any sensor, and back to the home position;
 - wherein the home position is reset when the sensor senses that the damper vane has reached the home position.
- 2. (Original) The damper of claim 1, further comprising an arm coupled to the shaft and having a magnet positioned thereon, the arm being generally aligned with the damper vane and moving as the vane moves from the closed position to the open position.
- 3. (Original) The damper of claim 1, wherein the sensor is a Hall Effect sensor.
- 4. (Original) The damper of claim 1, further comprising a microcontroller coupled to the sensor, the microcontroller resetting the home position upon receipt of an index signal from the sensor.

- 5. (Original) The damper of claim 1, wherein the home position is the closed position.
- 6. (Original) The damper of claim 1, wherein the motor is a stepper motor.
- (Original) A damper device for an air handling system, comprising:
 a frame defining an air flow opening;
 at least one damper vane coupled to the frame;
 - a stepper motor including a shaft with a first end extending through a hole defined by the frame and being coupled to the damper vane to move the damper vane between open and closed positions, the shaft also including a second end having an arm coupled thereto, the arm including a magnet, wherein the arm is generally aligned with the damper vane and rotates with the vane as the shaft moves the vane from the open to the closed position;
 - a circuit board coupled to the frame and positioned to at least partially overlap the arm, the circuit board including a Hall Effect sensor positioned to sense when the arm with the magnet passes in close proximity thereto; and
 - a microcontroller coupled to the Hall Effect sensor, the microcontroller resetting a home position upon receipt of an index signal from the Hall Effect sensor.
- 8. (Original) A positioning system for a vane of a damper device, comprising:
 - a Hall Effect sensor configured to sense when a position indicator including a magnet that is coupled to the vane reaches a home position and thereupon generate an index signal; and a microcontroller coupled to the sensor, the microcontroller resetting the home position of the vane upon receipt of the index signal.

- 10. (Original) The system of claim 8, wherein the system is configured to reset the home position upon initialization.
- 11. (Original) A method for controlling a position of a vane of a damper, the method comprising:

providing a magnet to move as the vane moves;

providing a sensor to sense when the magnet comes into close proximity thereto;

moving the vane between an open and a closed position;

generating an index signal when the magnet passes in close proximity to the sensor; and

setting a home position based on the index signal.

12. (Original) The method of claim 11, wherein the setting step further comprises:

measuring when the index signal starts;

measuring when the index signal ends;

selecting a midpoint between the start and the end of the index signal as the home position; and

returning the vane to the home position.

13. (Original) A method of positioning a vane of a damper upon initialization, the method comprising:

moving the vane;

generating an index signal when a position indicator coupled to the vane passes in close proximity to a sensing device; and setting a home position based on the index signal.

14. (Original) The method of claim 13, wherein the setting step further comprises:

measuring when the index signal starts;
measuring when the index signal ends;
selecting a midpoint between the start and the end of the index signal as
the home position; and
returning the vane to the home position.

- 15. (New) A damper device for an air handling system, comprising:
 - a frame defining an air flow opening;
 - at least one damper vane coupled to the frame;
 - a motor including a shaft coupled to the vane to move the damper vane between open and closed positions; and
 - at least one sensor positioned to sense when the damper vane reaches a home position;
 - wherein the damper vane rotates in a circular path from a home position in which the sensor senses the damper vane to a second position in which the damper vane is not sensed by any sensor in the device, and back to the home position;
 - wherein the home position is reset when the sensor senses that the damper vane has reached the home position.